



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/693,355

10/23/2003

Dan Dwyer

200312262

2726

22879

7590

05/09/2005

HEWLETT PACKARD COMPANY
P O BOX 272400, 3404 E. HARMONY ROAD
INTELLECTUAL PROPERTY ADMINISTRATION
FORT COLLINS, CO 80527-2400

EXAMINER

KOVAL, MELISSA J

ART UNIT

PAPER NUMBER

2851

DATE MAILED: 05/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/693,355	Applicant(s) DWYER ET AL.	
	Examiner Melissa J. Koval	Art Unit 2851	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 February 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-12,14,16,19-27,29,31-37,39,40,42,43,46,47,49-51,54 and 57-68 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-12,14,16,19-27,29,31-37,39,40,42,43,46,47,49-51,54 and 57-68 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 February 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-12, 14, 16, 19-27, 29, 31-37, 39, 40, 42, 43, 46, 47, 49-51, 54, and 57-68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Derryberry (U.S. Patent 6,626,543 B1).

See Figures 7, 8 and 9, for example, of Derryberry ('543 B2). It can be understood from the "DETAILED DESCRIPTION OF THE INVENTION" that the electronic image projection device of Derryberry is a multi-media device.

Claim 1 sets forth: "A multimedia display device comprising:
a docking station including speakers (See column 3, lines 64 through 66.) and a media drive (See column 5, lines 21 through 27, for media drives A and B.);
wherein said docking station (network docking station 42) is configured to structurally and communicatively couple an image projection device to said docking station (docking station connections 40)."

Note that the embodiment of Figure 11, the projector 10 can also serve as a docking station. See column 5, lines 54 through 67.

Therefore the invention of Derryberry '543 B1 can meet the limitations of claim 1 in more than one way if one embodiment is modified in view of another embodiment

taught by '543 B1. If for example, in the embodiment shown in Figure 8 the projector includes speakers as suggested by the teaching of column 3, lines 64 through 66, the docking station does include speakers by means of the projector. As a second example, if the projector 10 shown in the embodiment of Figure 11 includes speaker, the docking station is the projector for receiving the media drive. In either case, the elements are structurally and communicatively coupled and any patentable distinction in the claim language over Derryberry is not clear, and it would at least have been obvious to one having ordinary skill in the art that the time the invention was made that a multimedia device including a projection device, speakers and a docking system is well known in the art. The motivation for one to modify one embodiment over another to meet said limitations is found in the teaching of Derryberry '543 B1 as discussed above.

Claim 2 sets forth: "The multimedia display device of claim 1, wherein said docking station further comprises an electrical interconnect." See column 5, lines 51 through 57. Claim 3 is rejected for the same reasons applied to rejected claim 2.

Claim 4 sets forth: "The multimedia display device of claim 1, wherein said image projection device receives a video signal from said docking station via said electrical interconnect." See column 5, lines 24 and 25.

Claim 5 sets forth: "The multimedia display device of claim 4, wherein said video signal from said docking station is in synch with an audio signal output by said speakers of said docking station."

Derryberry ('543 B2) does not use the term "in synch" in the body of his specification. However the examiner believes that the limitations of claim 5 do not

patentably distinguish the claim over Derryberry. For example, Derryberry refers to a DVD drive in column 3, line 51. If the DVD image projected is not in synch with the accompanying audio, the device is not working properly and the viewer's viewing experience would be disorienting. Or, for example, the presentation referred to in column 3, lines 64 and 65 would have a similar effect on viewers of the presentation if the audio is not in synch with video. Viewers would be confused and subjected to an unpleasant and unintelligible viewing experience.

Therefore, it would have been obvious to one having ordinary skill in the art at the time that the invention was made that video and audio signals are in synch for the claimed system. The motivation for designing the system as such would be so that the system achieves its desired function for both the operator and the viewer or viewers.

Claim 6 sets forth: "The multimedia display device of claim 1, wherein said media drive comprises one of a compact disc read-only memory (CD-ROM) drive, a recordable (CD-R) drive, a rewritable CD (CD-RW) drive, a digital versatile disc read-only memory (DO-ROM) drive, a recordable DVD (DVD+R) drive, a rewritable DVD (DVD+RW) drive, a motion picture entertainment group compression format number three (MP3) drive, a DVD/CD/CDRW/MP3 combination drive, a cassette drive, a memory stick, a memory card slot, a hard disk device, or an M receiver." See column 3, lines 50 through 52.

Claim 7 sets forth: "The multimedia display device of claim 1, wherein said docking station further comprises an infrared (I/R) sensor configured to receive control commands from a remote control." See column 3, lines 41 and 42.

Claim 8 sets forth: "The multimedia display device of claim 7, wherein said

Art Unit: 2851

control commands are delivered to said image projection device through said docking station to control said image projection device." See column 3, lines 53 through 56.

Refer to Figures 1 and 3 of Derryberry, for example.

Claim 9 sets forth: "The multimedia display device of claim 1, wherein said docking station further comprises a plurality of control buttons configured to control an operation of said docking station." See power button 24 and reset button 26.

Claim 10 sets forth: "The multimedia display device of claim 1, further comprising a handle disposed on said docking station." Refer to Figures 6 through 8 of Derryberry and handle 38. Also see column 4, lines 54 through 57.

Claim 11 sets forth: "The multimedia display device of claim 1, wherein said image projection device comprises one of a liquid crystal display (LCD) projector, a digital light processing (DLP) projector, a liquid crystal on silicon (LCOS) projector, a slide projector, or a film projector." See column 3, lines 43 through 46.

Claim 12 sets forth: The multimedia display device of claim 1, wherein said docking station further comprises:

a body; and

a cavity disposed in said body;

wherein said cavity is configured to structurally support said image projection device. See Figures 7 and 8. Network docking station 42 is shown to have a body and a cavity for receiving projector 10 housed in projector housing 12.

Claim 14 sets forth: "The multimedia display device of claim 12, wherein said cavity is configured to support said image projection device in a horizontal position. Again see Figures 7 and 8, for example.

Claim 16 sets forth: "The multimedia display device of claim 1, wherein said speakers comprise two speakers configured to provide stereo sound." Again refer to column 3, lines 64 and 65, wherein Derryberry teaches, "The projection device and/or the computer device could utilize speakers to present audio information." Therefore the reference teaches the presence of plural speakers, but does not specifically state "two speakers" as claimed. The examiner does not believe that the number of speakers used achieves unexpected results and many audio devices utilize two speakers. Therefore it would have been obvious to one having ordinary skill in the art at the time the invention was made to utilize two speakers because the reference implies the presence of at least two speakers as described above. The motivation for one having ordinary skill in the art to use two speakers would be to provide sound to the viewer's left and right ears equally. Claim 37 is rejected for the same reasons.

Claim 19 sets forth: "The multimedia display device of claim 1, wherein said docking station further comprises an indicator configured to notify a user when said image projection device is correctly coupled to said docking station." See power button 24, drives A and B, and display screen 18. Once the power button is on, the failure of the drives or the display screen to operate would indicate the failure of electrical connectivity among the docked devices.

Claim 20 sets forth: "A method of coupling an image projection device to a media source comprising:

providing an independent image projection device;

providing a docking station for supporting said image projection device, said docking station comprising said media source; and

selectively coupling said image projection device to said docking station by mounting said image projection device onto said docking station; and

indicating with a dedicated indicator when said image projection device is successfully coupled to said docking station."

Method claims 20 and 21 are rejected for the same reasons already applied to rejected claim 1. Furthermore with respect to claim 20, it is not clear how the "dedicated indicator" as set forth in the newly amended claim 20 patentably distinguishes over power button 24. Claim 68 is rejected for the same reasons.

Method claims 22 and 23 are rejected for the same reasons already applied to rejected claims 2 and 3, respectively.

Claim 24 sets forth: "The method of claim 20, further comprising remotely controlling said docking station or said image projection device with an infrared (VR) remote control." See column 3, lines 41 and 42 of Derryberry ('543 B2).

Claims 25 and 26 are rejected for the same reasons applied to already rejected claim 7.

Claim 27 is rejected for the same reasons applied to already rejected claim 6.

Claim 29 is rejected for the same reasons already applied to rejected claim 14.

Method claim 31 is rejected for the same reasons already applied to rejected claim 5.

With respect to claim 32, again refer to Figures 6 through 8 of Derryberry ('543 B2) and column 3, lines 64 and 65.

With respect to claims 33 and 34, refer to docking station connections 40 in Figure 8, for example.

Claim 35 is rejected for the same reasons already applied to rejected claim 11.

Claim 36 sets forth: "The multimedia display device of claim 32, wherein said audio means comprises a number of speakers." See column 3, lines 64 and 65.

Claim 39 is rejected for the same reasons applied to already rejected claim 6.

Claim 40 is rejected for the same reasons applied to already rejected claim 12.

Method claims 42 and 43 are rejected for the same reasons already applied to rejected claims 32 through 34.

Method claim 46 is rejected for the same reasons applied to already rejected claim 6.

With respect to claim 47, again refer to column 3, lines 64 and 65.

Claims 49 through 51, 54, 57, 58, 59, 60, and 61 are rejected for reasons already applied to the above rejected claims.

Claim 62 sets forth: "The image projector of claim 59, wherein said electrical connection comprises one of a universal serial bus (USB), a small computer system interface (SCSI), a Bluetooth connection, an VEE 1394 high speed serial bus, a parallel connection, a serial connection, a radio corporation of America (RCA) connector, a

coaxial cable connector, a fiber optic connector, or a wireless connector." See column 3, lines 53 through 56, of Derryberry ('543 B2).

With respect to claims 63 through 65, the teaching of Derryberry is silent to the shape of the speakers that may be used, suggesting that the device could make use of any shaped speakers.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use round speakers with the device taught by Dewberry, as nothing in applicant's specification suggests that the shape of the speakers are critical. The motivation for one having ordinary skill in the art to use one shape of speaker over another shape would be purely cosmetic.

With respect to claims 66 and 67, refer to the embodiment of Figure 8 in view of the arguments already applied to rejected claim 1.

Response to Arguments

Applicant's arguments with respect to claims 1-12, 14, 16, 19-27, 29, 30, 31-37, 39, 40, 42, 43, 46, 47, 49-51, 54, and 57-65 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Wu U.S. Patent 6,827,447 B2 teaches a recordable projector.

Sampsell U.S. Patent 6,496,122 B2 teaches an image display and remote control system capable of displaying two distinct images.

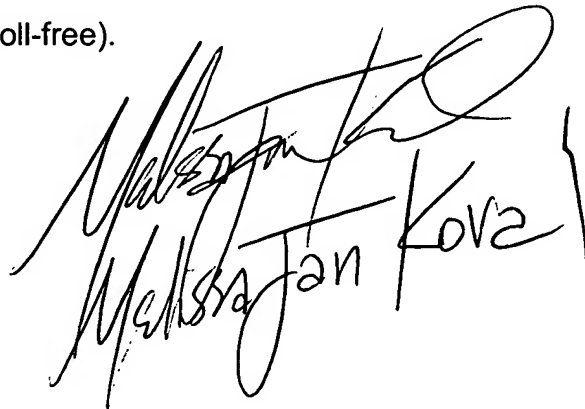
Georges et al. U.S. Patent Application Publication US 2004/0089140 A1 teaches systems and methods for creating, modifying, interacting with and playing musical compositions.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melissa J Koval whose telephone number is (571) 272-2121. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on (571)272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

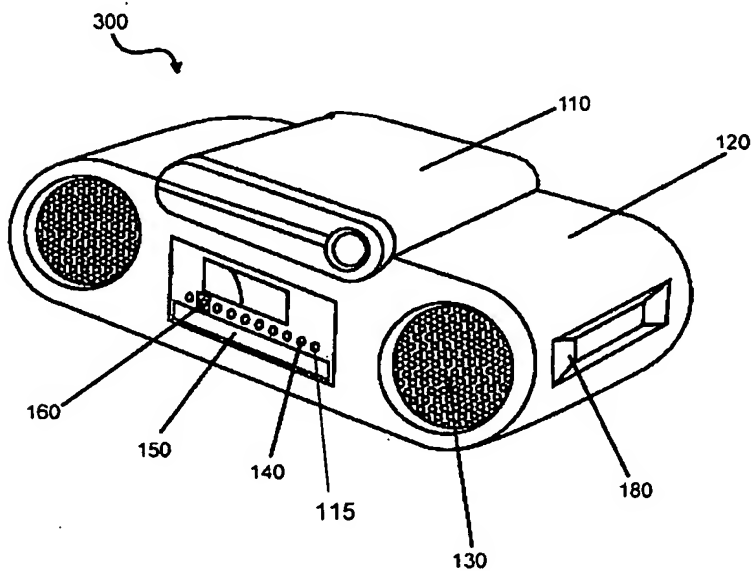
MJK



Handwritten signature of Melissa J Koval, with the name 'Melissa J Koval' written in cursive below the signature.

IN THE DRAWINGS:

Applicant proposed herein to amend Fig. 3 to add reference number "115" and a reference line indicating an illustrated "indicator" as being element "115." Revised Fig. 3 is shown below. Additionally, a replacement drawings sheet is filed herewith. Approval of the proposed drawing change is respectfully requested.

**Fig 3**

Applicant further proposes to amend Fig. 4, as shown below, to add step 425 "Indicate that projection device successfully docked" and to change step 430 to add the indicated language: "Receive video signal from docking station and project images with accompanying sound (step 430)." A replacement sheet bearing the amended Fig. 4 is also filed herewith.

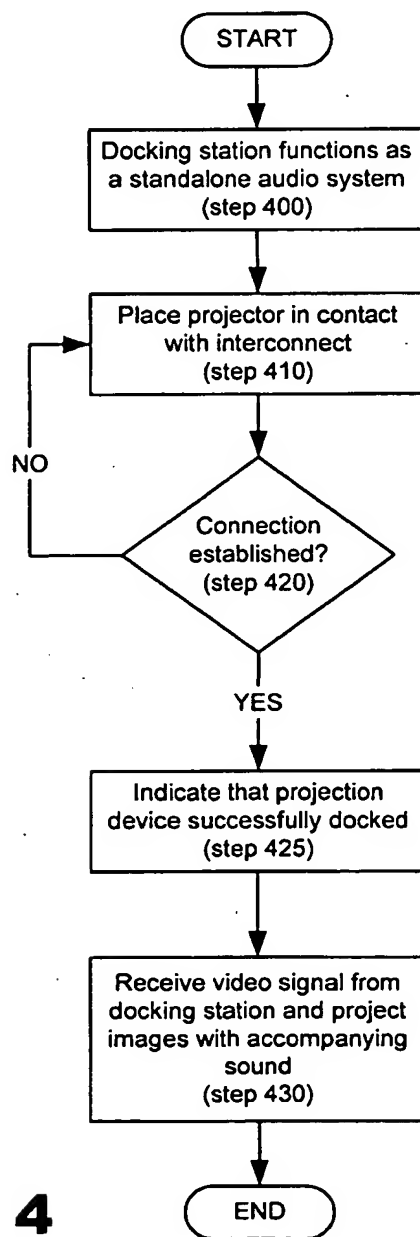


Fig. 4